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**United States Patent** [19]  
**Paul**

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[54] **SYSTEM AND METHOD FOR FILTERING  
UNSOLICITED ELECTRONIC MAIL  
MESSAGES USING DATA MATCHING AND  
HEURISTIC PROCESSING**

[75] **Inventor:** Sunil Paul, San Francisco, Calif.

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[51] **Int. Cl.°** ..... G06F 15/173

[52] **U.S. Cl.** ..... 707/10; 707/6; 707/526;  
395/200.36; 395/200.37; 395/683

[58] **Field of Search** ..... 707/6, 10, 526,  
707/102; 395/200.36, 200.37, 683, 200.53,  
200.43

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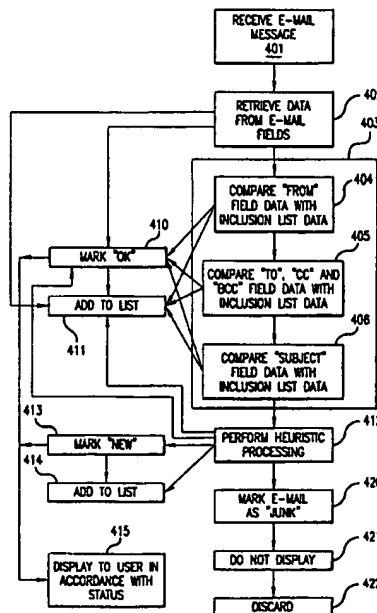
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[57]

**ABSTRACT**

A system for eliminating unsolicited electronic mail generates and stores a user inclusion list including identification data for identifying e-mail desired by the user. Data from one or more fields of incoming electronic mail messages are compared with the identification data stored in the user inclusion list. If the electronic mail message data matches corresponding identification data from the user inclusion list, the e-mail message is marked with a first display code, such as "OK." If no match is detected, the system performs at least one heuristic process to determine whether the electronic mail message may be of interest to the user. If the message satisfies one or more criteria as determined by the heuristic process and is therefore of potential interest to the user, the message is marked with a second display code, such as "NEW." If the e-mail message does not satisfy any of the heuristic criteria, the e-mail message may be marked with a third display code, such as "JUNK." The processed e-mail messages are displayed to the user in a display mode corresponding to the display codes respectively assigned to the messages.

**31 Claims, 7 Drawing Sheets**





US005890163A

**United States Patent** [19]  
**Todd**

[11] **Patent Number:** **5,890,163**  
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[54] **SHARING AN ELECTRONIC MAIL MESSAGE WITH A PARTY NOT NAMED AS A RECIPIENT OF THE MESSAGE**

[76] **Inventor:** William Gregory Todd, 10 Archbriar Pl., The Woodlands, Tex. 77382

[21] **Appl. No.:** 721,556

[22] **Filed:** Sep. 26, 1996

[51] **Int. Cl.<sup>6</sup>** ..... G60F 17/30

[52] **U.S. Cl.** ..... 707/200; 707/204

[58] **Field of Search** ..... 395/616, 200.3, 395/93.01

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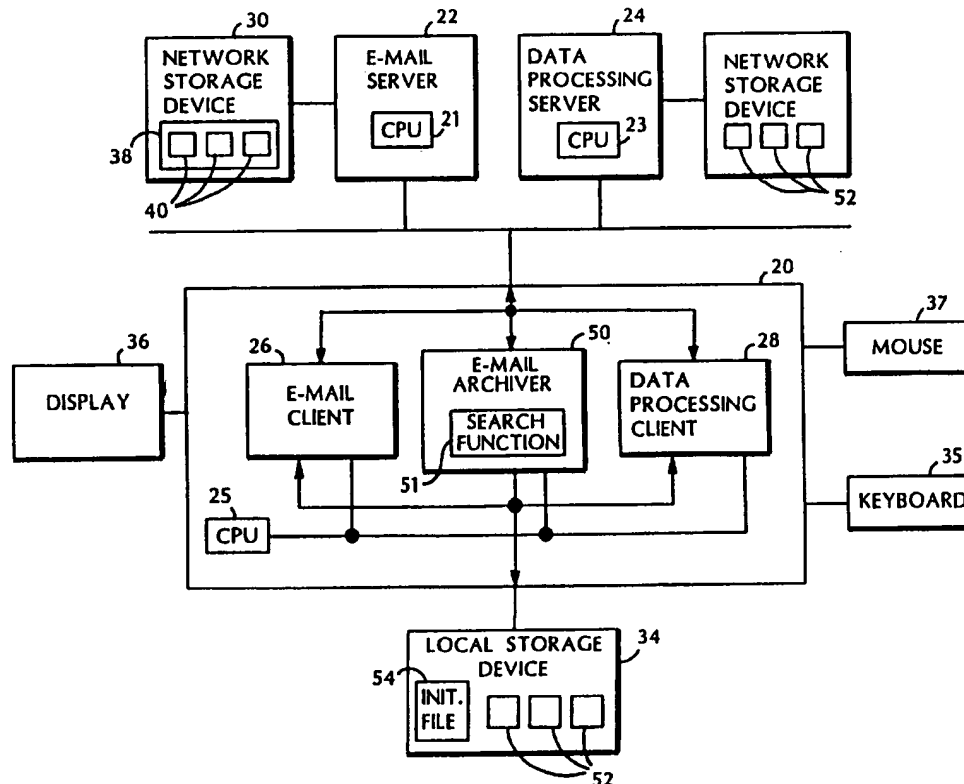
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[57] **ABSTRACT**

An electronic mail archiver for use in a computer system includes a user interface that allows a user to identify an electronic mail message to be archived from an electronic mail system, and a message transfer component that automatically retrieves the message from the electronic mail system in an electronic mail format and stores the message in a format defined by a data processing application capable of running in the computer system.

57 Claims, 23 Drawing Sheets



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1	397	lotus! ADj2 notes!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/02/19 15:32
2	47	(lotus! ADj2 notes!) SAME retriev\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/02/19 15:33
3	2	(lotus! ADj2 notes!) SAME retriev\$5 SAME parameter\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/02/19 15:34
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6	85	(lotus! ADj2 notes!) AND ((mail\$2 OR email\$2) Near2 server\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/02/19 15:37
7	24	((lotus! ADj2 notes!) AND ((mail\$2 OR email\$2) Near2 server\$2)) AND (user\$2 NEAr2 option\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/02/19 15:39